

Laura S. Olton General Counsel Rhode Island

January 24, 2007

## VIA HAND DELIVERY & ELECTRONIC MAIL

Luly E. Massaro, Commission Clerk Rhode Island Public Utilities Commission 89 Jefferson Boulevard Warwick, RI 02888

> RE: Docket 3628 – The Narragansett Electric Company's Service Quality Plan Feeder Ranking Report – 4th Quarter 2006

Dear Ms. Massaro:

Enclosed please find ten (10) copies of the Feeder Ranking Report for the fourth quarter of 2006, filed in accordance with the Additional Reporting Criteria, Item 1, of The Narragansett Electric Company, d/b/a National Grid Service Quality Plan effective January 1, 2005.

Thank you for your attention to this filing. Please feel free to contact me if you have any questions at (401) 784-7667.

Very truly yours,

Laura S. Olton

Laura S. Olton

**Enclosures** 

Docket 3628 Service List cc: Paul Roberti, Esq.

Steve Scialabba, Division

## Feeder Ranking By Quarter (Q-4) The Narragansett Electric Company October 2006 - December 2006

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3 17W43 2 28FT WOONSCREET 1015 1 110.11 120802 Feeder Lodoux - Motor Verbrook Made separate to intermy phase conductors at 10 10 110 110 110 110 110 110 110 110	2	32312	2.7094	NEWPORT	409	2	220.69	107916		operation.
A SIGNETH SIMITHER D  4 SIGN STEPLY  5 SIGN 2 94.39 SOSGE Food Olugae for Emergency  Made personal potentials of the Annual Control of Signed Signed State (Freedom Control of Note Vehicle Academ)  5 122.22 17689 MIDDLETOWN  7 WEWPORT  7 SIGN STEPLY  5 SIGN STEP										normal operation
4 10.3 1.9254 WESTERLY 598 2 94.30 505086 Forced Oxigage for Emergency Mode permanent repairs (follows) the Mode permanent (follows) the Mode permanen	3	17W43	2.2877		1015	1	119.11	120892		Made repairs to primary phase conductors and restored circuit to normal operation.
S   17.389 MIDDLETOWN   740   3   70.86   52.53 Transformer laws this laisure   Repaired tap and reliased transformer color   1.789 MIDDLETOWN   740   3   70.86   52.53 Transformer laws this laisure   Repaired tap and reliased transformer color   1.79 MIDDLETOWN	4	16J3	1.9254		536	2	94.39	50595		Made permanent repairs following the motor
5 122.12 1.7589 MIDDLETOWN 740 3 70.86 5245 Transformer fuse link failure - Protection to Proceed on the Control of the Control of the Control of Control										
5 122.22 1.7589 MIDDLETOWN 740 S 70.86 52433 Francheme fuse link failure - Meaning performed to allow for repair forced to Usage - Tree Limb - Section of the Control of Usage - Tree Limb - Section of the Control of Usage - Tree Limb - Section of the Control of Usage - Tree Limb - Section of the Control of Control of the Control of Control of the Control of Con										
NEWPORT	5	122J2	1.7689	MIDDLETOWN	740	3	70.86	52435	Transformer fuse link failure -	Repaired tap and refused transformer cutout
the circuit was returned to normal operation.  Toss of 28kV Supply - Cable big in Repaired Cable and restored circuit to normal operation.  Toss of 28kV Supply - Cable big in Repaired Cable and restored circuit to normal operation.  Peader Lockout - Damage to feeder which insulator. Following a specific property of the circuit was required to normal operation.  Feeder Lockout - Damage to feeder which insulator. Following high property of the circuit was required to normal operation.  Feeder Lockout - Damage to feeder which insulator. Following high property of the circuit was required to normal operation.  Feeder Lockout - Damage to feeder which insulator. Following high property of the circuit was required to normal operation.  Feeder Lockout - Damage to feeder which insulator. Following high property of the circuit was required to normal operation.  Feeder Lockout - Tree Limb Removed the limb and registered limb false.  Feeder Lockout - Tree Limb Removed the limb and registered limb false.  Feeder Lockout - Tree Limb Removed the limb and registered limb false.  Feeder Lockout - Tree Limb Replaced insulator and registered limb false.  Feeder Lockout - Tree Limb Replaced insulator and registered limb false.  Feeder Lockout - Tree Limb Replaced false doublement and registered in false.  Feeder Lockout - Tree Limb Replaced false doublement and registered in false.  Feeder Lockout - Tree Limb Replaced false doublement and registered in false.  Feeder Lockout - Tree Limb Removed the early experiment and registered in false.  Feeder Lockout - Tree Limb Removed the early experiment and registered in false.  Feeder Lockout - Tree Limb Removed the limb and registered in false.  Feeder Lockout - Tree Limb Removed the limb and registered in false.  Feeder Lockout - Tree Limb Removed the limb and registered in false.  Feeder Lockout - Tree Limb Removed the limb and registered in false.  Feeder Lockout - Tree Limb Removed the limb and registered limb false.  Feeder Lockout - Tree Limb Removed the limb and registered limb f				NEWPORT						Switching was performed to allow for repairs
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6 3F2 1.7152 WARWICK 2714 4 34 92274 Forced Outage - Insulator Failure   Special Content of the										the circuit was returned to normal operation.
6 SF2 1.7152 WARWICK 2714 4 34 92274 Forced Outage - Insulator Failure Surficing was performed to allow for repair and a second to the second to restate t									Loss of 23kV Supply - Cable Dig In	Repaired Cable and restored circuit to normal
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breaker caused by a squirrel    December   Property   P									Feeder Lockout - Damage to feeder	Switching was performed to restore load and
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Fuse Link Failure - Tree Limb										
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Second Procedure   Fuse Link Failure - Tree Limb   Removed tree limb and replaced line fuses										
Fuse Link Failure - Animal Replaced line fuse Made repairs to primary phase conductors a restored circuit to normal operation.  8 59F1 1.3494 SOUTH KINGSTOWN NARRAGANSETT  EXETER  NORTH KINGSTOWN  Replaced line fuse  Fuse Link Failure - Deterioration  Replaced line fuse  Removed tree and replaced line fuse  Fuse Link Failure - Tree Limb  Removed limb and replaced line fuse  Fuse Link Failure - Animal  Replaced transformer fuse  Fuse Link Failure - Tree Limb  Removed limb and replaced line fuse  Puse Link Failure - Tree Limb  Removed limb and replaced line fuse  Puse Link Failure - Tree Limb  Removed limb and replaced line fuse  Puse Link Failure - Tree Limb  Removed limb and replaced line fuse  Puse Link Failure - Tree Limb  Removed tree and replaced transform fuse  Puse Link Failure - Tree  Removed tree and replaced transform fuse  Fuse Link Failure - Animal  Replaced and ine fuse  Puse Link Failure - Animal  Replaced line fuse  Remo									reeder Lockout - Tree Limb	
Forced Outage - Motor Vehicle Accident  Forced Outage - Motor Vehicle  Forced Outage - Motor Vehicle  Accident  Forced Outage - Motor Vehicle  Forced Outage - Motor Vehicle  Accident  Forced Outage - Motor Vehicle  Forced Outage - Motor Vehicle  Accident  Forced foeder outage - Informatics Information Replaced line fuse  Forced foeder outage - Informatics Information  Forced feeder outage - Informatics Information  Forced feeder outage - Informatics Informatics Information  Forced feeder outage - Informatics Informatics Information  Forced feeder outage - Informatics Informa										
8 59F1 1.3494 SOUTH KINGSTOWN NARRAGANSETT EXETER  NORTH KINGSTOWN  NORTH KINGTOWN  NORTH KINGSTOWN  NORTH KINGTOWN  NORTH KINGTOWN  NORTH KINGTOWN  NORTH Killure - Lightning  Replaced line fuse  North Kailure - Lightning  Replaced line fuse  North Kailure - Tree Limb  Removed tree and replaced transform  Replaced line fuse  North Kailure - Tree Limb  Removed tree and replaced transform  Replaced fine fuse  North Kailure - Tree Limb  North Kailure - Tree Limb  Replaced line fuse  North Kailure - Tree Limb  Repl										
NARRAGANSETT  EXETER  NORTH KINGSTOWN  NorTH Kailure - Deterioration  Replaced line fuse  North Kailure - Tree									Accident	restored circuit to normal operation.
EXETER  NORTH KINGSTOWN  Replaced Line fuse  Fuse Link Failure - Unknown Cause Replaced Line fuse  Fuse Link Failure - Deterioration Replaced line fuse  Loss of 34kV supply - structure Manually switched to an alternate supply to restore load and made repairs.  Fuse Link Failure - Tree Removed tree and replaced line fuses  Fuse Link Failure - Equipment Replaced failed equipment and replaced transformer fuse  Fuse Link Failure - Tree Limb Removed limb and replaced ine fuse Removed tree, replaced pole and replaced transformer fuse  Fuse Link Failure - Animal Replaced failed equipment and replaced line fuse Removed limb and replaced line fuse Replaced equipment and replaced line fuse Replaced equipment fuse Replaced equipment and replaced line fuse Replaced equipment fuse Replaced equipment and replaced line fuse Replaced equipment fuse Replaced equipment fuse Replaced line fuse Removed tree and replaced line fuse Fuse Link Failure - Animal Replaced line fuse Removed tree limb and restored circuit to	8	59F1	1.3494		1946	14	40.92	79630		
EXETER  NORTH KINGSTOWN  Fuse Link Failure - Unknown Cause Replaced Line fuse  Fuse Link Failure - Deterioration Replaced line fuse Loss of 34kV supply - structure Manually switched to an alternate supply to damage restore load and made repairs.  Fuse Link Failure - Tree Removed tree and replaced line fuses Fuse Link Failure - Equipment Replaced failed equipment and replaced transformer fuse Fuse Link Failure - Tree Limb Removed limb and replaced line fuse Fuse Link Failure - Animal Replaced failed equipment and replaced transformer fuse Fuse Link Failure - Animal Replaced failed equipment and replaced line fuse Fuse Link Failure - Tree Limb Removed failed equipment and replaced line fuse Fuse Link Failure - Tree Limb Removed limb and replaced line fuse Fuse Link Failure - Tree Limb Removed limb and replaced line fuse Fuse Link Failure - Tree Limb Removed limb and replaced transform fuse Fuse Link Failure - Tree Removed tree and replaced transform fuse Fuse Link Failure - Tree Removed tree and replaced transform fuse Fuse Link Failure - Tree Removed tree and replaced line fuse Fuse Link Failure - Tree Removed tree and replaced line fuse Fuse Link Failure - Animal Replaced line fuse Fuse Link Failure - Tree Removed tree and replaced line fuse Fuse Link Failure - Animal Replaced line fuse Fuse Link Failure - Tree Removed tree limb and restored circuit to				I I 36/IADA77AVI						
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Fuse Link Failure - Tree Removed tree and replaced line fuses Fuse Link Failure - Equipment Replaced failed equipment and replaced transformer fuse Fuse Link Failure - Tree Limb Removed limb and replaced line fuse Fuse Link Failure - Tree Limb Removed tree, replaced pole and replace transformer fuse Fuse Link Failure - Animal Replaced transformer fuse Fuse Link Failure - Equipment Replaced failed equipment and replaced line fuse Fuse Link Failure - Tree Limb Removed limb and replaced line fuse Fuse Link Failure - Tree Limb Removed limb and replaced line fuse Fuse Link Failure - Tree Limb Removed limb and replaced line fuse Fuse Link Failure - Tree Limb Removed limb and replaced line fuse Fuse Link Failure - Tree Removed limb and replaced line fuse Fuse Link Failure - Tree Removed limb and replaced line fuse Fuse Link Failure - Tree Removed tree and replaced line fuse Fuse Link Failure - Tree Removed tree and replaced line fuse Fuse Link Failure - Animal Replaced line fuse Fuse Link Failure - Animal Replaced line fuse Forced feeder outage - tree limb Removed tree limb and restored circuit to									Loss of 34kV supply - structure	Manually switched to an alternate supply to
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transformer fuse    Fuse Link Failure - Animal   Replaced transformer fuse										
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WARREN Forced feeder outage - tree limb Removed tree limb and restored circuit to										
	9	5F1	1.342		2427	12	256.53	622594		
normal operation				WARREN						

## Feeder Ranking By Quarter (Q-4) The Narragansett Electric Company October 2006 - December 2006

Rank	Feeder	Frequency	Town Served	Customers	Events	Duration	CMI	Cause	Corrective Action
								Fuse Link Failure - Unknown Cause	Replaced transformer fuse
								Fuse Link Failure - Unknown Cause	Replaced Line fuse
								Fuse Link Failure - Animal	Replaced transformer fuse
								Fuse Link Failure - Tree Limb	Removed limb and replaced transformer fuse
								Fuse Link Failure - Animal	Replaced transformer fuse
								Planned Outage - Equipment	Restored circuit to normal operation following
								Maintenance	maintenance
								Fuse Link Failure - Tree Limb	Removed tree limb and replaced line fuse
								Fuse Link Failure - Tree Limb	Removed tree limb and replaced line fuse
								Fuse Link Failure - Animal	Replaced line fuse
								Fuse Link Failure - Tree Limb	Removed tree limb and replaced line fuse
10	34F3	1.3056	GLOCESTER	1106	15	99.68	110245	Fuse Link Failure - Tree Limb	Removed tree limb and replaced line fuse
			FOSTER					Fuse Link Failure - Tree	Removed tree and replaced line fuse
			SCITUATE					Fuse Link Failure - Tree Limb	Removed tree limb and replaced line fuse
								Fuse Link Failure - Equipment	Repaired damaged equipment and replaced
								Damage - Wind	fuse
								Fuse Link Failure - Tree Limb	Removed tree limb and replaced line fuse
								Fuse Link Failure - Tree Limb	Removed tree limb and replaced line fuse
								Fuse Link Failure - Animal	Replaced line fuse
		]		1				Planned Outage - Equipment	Restored circuit to normal operation following
		]		1				Maintenance	maintenance
		]		1				Fuse Link Failure - Equipment	Replaced failed equipment and replaced
	1	I		I	ĺ	]		Failure	Trasformer fuse
	1	I		I	ĺ	]		Planned Outage - Equipment	Restored circuit to normal operation following
		]		1				Maintenance	maintenance
								Fuse Link Failure - Tree Limb	Removed tree limb and replaced line fuse
								Planned Outage - Equipment	Restored circuit to normal operation following
								Maintenance	maintenance
								Fuse Link Failure - Equipment	Replaced failed equipment and replaced
								Failure	Trasformer fuse
								Feeder Lockout - Equipment	Repaired damaged equipment and restored
								Damage	circuit to normal operation
								Fuse Link Failure - Unknown Cause	
								r use Link r allure - Orikhown Gause	Replaced Line lase
11	59F2	1.214	SOUTH KINGSTOWN	2341	7	89.32	209088	Forced Outage - Tree Limb	Removed tree limb and restored circuit to normal operation
								Forced Outage - Tree Limb	Removed tree limb and restored circuit to
									normal operation
								Fuse Link Failure - Animal	Replaced transformer fuse
								Forced Outage - Equipment	Replaced damaged equipment and restored
								Damage	circuit to normal operation
								Fuse Link Failure - Equipment	Replaced failed equipment and replaced line
								Failure	fuse
								Fuse Link Failure - Unknown Cause	Replaced transformer fuse
								Fuer Link Foilure Fauinment	Deple and failed agricement and replaced
								Fuse Link Failure - Equipment	Replaced failed equipment and replaced
								Failure	transformer fuse
12	102W54	1.2028	CUMBERLAND	2180	11	41.45	90367	Fuse Link Failure - Animal	Replaced transformer fuse
								Fuse Link Failure - Equipment	Replaced failed equipment and replaced
								Failure	transformer fuse
								Fuse Link Failure - Deterioration	Replaced transformer fuse
								Fuse Link Failure - Tree Limb	Removed tree limb and replaced transformed
									fuse
	1	1		İ				Fuse Link Failure - Tree Limb	Removed tree limb and replaced transforme
		]		1				Linki andro 1100 Linio	fuse
	1	1		I	ĺ			Fuee Link Failure - Equipment	
		]		1				Fuse Link Failure - Equipment	Replaced failed equipment and replaced
		]		1				Failure	transformer fuse
	1	1		I	ĺ			Fuse Link Failure - Animal	Replaced Line fuse
		]		1				Fuse Link Failure - Tree Limb	Removed tree limb and replaced transformed
	1	1		I	ĺ				fuse
		]		1				Fuse Link Failure - Animal	Replaced transformer fuse
	1	1		I	ĺ			Fuse Link Failure - Animal	Replaced transformer fuse
		]		1				Feeder Lockout - Unknown	Feeder patrolled - no cause found - restored
		]		1				1 COGGI LOCKOGE - OTIKITOWIT	circuit to normal operation
40	4071440	4 40	NODTH OMETITES	0500	_	50.4-	440450	From Link Follows Actions	
13	127W40	1.1845	NORTH SMITHFIELD	2509	6	59.17	148452	Fuse Link Failure - Animal	Replaced Line fuse
	1	I	BURRILLVILLE	I	ĺ	]		Fuse Link Failure - Tree Limb	Removed tree limb and replaced transformed
		]		1					fuse
		]		1				Recloser Lockout - Equipment	Replaced failed equipment and restored circ
		1		İ				Failure	to normal operation
		l		1				Fuse Link Failure - Animal	Replaced transformer fuse
				1					
			l	İ				Fuse Link Failure - Cable Dig In	Repaired damaged cable and replaced
					I				transformer fuse
						1		Fuse Link Failure - Animal	Replaced transformer fuse
					_				
14	6J3	1.1667	PROVIDENCE	24	1	93.33	2240	Feeder Lockout - Motor Vehicle	Repaired damaged equipment and restored
14	6J3	1.1667	PROVIDENCE	24	1	93.33	2240	Feeder Lockout - Motor Vehicle Accident	
								Accident	Repaired damaged equipment and restored circuit to normal operation  Restored circuit to normal operation following
14	6J3 12J3		PROVIDENCE PROVIDENCE	24		93.33 162.3		Accident Planned Outage - Voltage	circuit to normal operation Restored circuit to normal operation following
		1.1349			1		46904	Accident	circuit to normal operation

# Feeder Ranking By Quarter (Q-4) The Narragansett Electric Company October 2006 - December 2006

Rank	Feeder	Frequency	Town Served	Customers	Events	Duration	CMI	Cause	Corrective Action
								Feeder Lockout - Tree Limb	Removed limb and restored circuit to normal operation
								Fuse Link Failure - Animal	Replaced Line fuse
								Planned Outage - Equipment Maintenance	Restored circuit to normal operation following maintenance
17	21J2	1.1318	MIDDLETOWN	311	4	48.32	15029	Fuse Link Failure - Tree Limb	Removed tree limb and replaced transformer fuse
								Fuse Link Failure - Tree Limb	Removed tree limb and replaced line fuse
								Loss of 23kV Supply - Cable Dig In	Repaired Cable and restored circuit to normal operation.
								Fuse Link Failure - Tree Growth	Cleared tree growth and replaced transformer fuse
18	51J2	1.1146	NEWPORT	724	2	30.36	21983	Forced Outage - Tree Limb	Repaired damage caused by tree limb and restored circuit to normal operation
								Forced Outage - Equipment Damage	Repaired damage and restored circuit to normal operation

The Total No. of cust's Served will vary throughout the year due to new activations, terminations of service or rearrangements of the company's distribution system.

DURATION = (Total CMI) / (Total no. of cust's served by feeder)

FREQUENCY = (Total no. of cust's interrupted) / (Total no. of cust's served by feeder)

DTAL CUSTOMER MINUTES (CMI) = Sum of [((number of customers interrupted) x ( duration of interruption)) for each event]

# **Certificate of Service**

I hereby certify that a copy of the cover letter and / or any materials accompanying this certificate has been mailed or hand-delivered to the individuals listed below.

an conta	
	January 24, 2007
Joanne M. Scanlon	Date

## Narragansett Electric Company – Service Quality Plan Docket 3628 - Service List

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